Medlex Deodorant Blocks

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION A	ND MANUEACTURERIC INCORNATION		
PRODUCT IDENTIFICATION AND MANUFACTURER'S INFORMATION Manufactured for: Industrial Soap Company. Chemical Name: 1,4-dichlorobenzene			
Address: 2930 Market St			
St. Louis, MO 63103	Identity: Deodorizer/air freshener		
	Restroom Deodorant		
Night For calls from anywhere in the US Canada	Spill, Leak, Fire, Exposure, or Accident call Chemtrec-Day or		
Night. For calls from anywhere in the US, Canada, or the Virgin Islands, call toll free to 1-800-424-9300. For calls originating elsewhere, call 1-202-483-7616 (collect calls accepted).			
	I the state of the		
For Information: (314) 241-6363	Chemical Family: Chlorinated Aromatic		
Chemical Formula: C6H4Cl2			
SECTION 2 - V	VARNING STATEMENTS		
Warning! Causes irritation to eyes, skin and respira	atory tract irritation. Harmful if swallowed. Keep out of reach		
of children. Keep away from food. Combustible vap	or and material. Marine pollutant. Molten material can cause		
severe burns. Excessive exposure may cause liver ar	nd kidney damage. Warning! This material has been shown to		
cause cancer when administered orally to rodents at h	nigh levels.		
SECTION 3 - PRECAU	JTIONS FOR SAFE HANDLING		
Skin Protection: Wear appropriate protective	Respiratory Protection: Avoid breathing vapor, mist or		
clothing and chemical resistant gloves to prevent	dust. Use NIOSH/MSHA approved respiratory protection		
skin contact. Consult glove manufacturer to	equipment (full facepiece recommended) when airborne		
determine appropriate type glove for given	exposure limits are exceeded (see below). If used, full		
application. Use face shield and chemical resistant	facepiece replaces need for face shield and/or chemical goggles.		
clothing such as a rubber apron when splashing is	Consult respirator manufacturer to determine appropriate type		
likely. Wash contaminated skin promptly.	equipment for given application. Observe respirator use		
Launder contaminated clothing and clean protective	limitations specified by NIOSH/MSHA or the manufacturer.		
equipment before re-use. Wash thoroughly after	Respiratory protection programs must comply with		
handling.	29C.F.R.1910.134.		
Ventilation: Provide ventilation to control	Airbourne Exposure Limits: para-Dichlorobenzene (99.4)		
exposure levels below airborne exposure limits.	- 100% by wt. of product). OSHA PEL: 75 ppm 8-Hour		
Use local mechanical exhaust ventilation at sources	TWA:110 ppm short term exposure limit. ACGIH TLV: 10		
of air contamination such as open process equipment. Consult NFPA Standard 91 for design	ppm 8-Hour TWA.		
of exhaust systems.			
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NOTE: The National Toxicology Program finding of tumors in laboratory animals was not available when these airborne exposure limits were set for para-Dichlorobenzene by OSHA and ACGTH.			
SECTION 4 - FIRST AID PROCEDURES			
Eyes: Remove material from eyes, skin and clothing. Flush Eyes for at least 15 min., call physician. Skin:			
Immediately flush with water, remove contaminated clothing. If hot, treat for thermal effects. If Inhaled: remove			
to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing difficult, give			
oxygen. Call physician. If swallowed: Immediately get medical attention. Do NOT induce vomiting unless			
directed by medical personnel. Never give anything by mouth to an unconscious person. SECTION 5 - FIRE AND EXPLOSION HAZARD/REACTIVITY DATA			
Flash Point (Method Used): 150°F			
(Tagliabue Closed Cup)	Extinguishing Media: Water spray, foam, CO2, dry chemical or any Class B extinguishing agent.		
Special Firefighting Procedures: Wear full protective clothing and self-contained breather apparatus where exposure to vapor or gases is possible. Firefighting equipment should be thoroughly decontaminated after use.			
Stability: Stable under normal conditions; avoid	Incompatibility: None known		
strong oxidizers, oxidizing agents.	Theompatibility. 14006 Known		
Hazardous Decomposition: Carbon	Hazardous Polymerization: Does not occur.		
monoxide (CO), carbon dioxide (CO2), smoke,	2 2 1 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
soot, chlorides and phosgene.			

	SECTION 6 - PHYSICAL	DATA
Vapor Pr. (MM HG) 20C@68f:.6 mm Hg	Odor: Penetrating "mothball odor"	Melting Point: 53°C (127.4°F)
Vapor Density (AIR = 1): 5.1	Color: White crystals/pink	Boiling Point: 174°C (345.2°F)
Spec. Gravity @ 55°/4°C:1.25	H ₂ O Solubility @25C, % by wt.:.008	(515.2.1)

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 7 - SPILL, LEAK, & DISPOSAL INFORMATION

Emergency Spill and Leak Information: Keep people away. Shut off or extinguish all sources of ignition. Shut off lead if without risk. Small spills, keep upwind. Large spills, evacuate area. If necessary to enter spill area, wear self-contained breathing apparatus and full protective clothing including boots. Sweep up or shovel into clean metal containers. Run-off to sewers may create health and explosion hazards; notify fire, health and pollution control authorities.

Release of more than 100 pounds to the environment in a 24-hour period requires notification of the National Response Center, 1-800-424-8802. Notification of state authorities may also be required.

Disposal Information: This product can become a hazardous waste as designated by the Environmental Protection Agency under the authority of the Resource Conservation and Recovery Act (RCRA). Product (or waste) has RCRA Hazardous Waste Number U072 as designated in 40 CFR 268. Disposal by incineration is Best Available Demonstrated Treatment (BDAT). All federal, state, and local regulations should be followed in disposing of this substance.

SECTION 8 - TRANSPORT / REGULATORY

DOT Label(s): Keep away from food. Marine polutant (overwater shipments) US. Surface Freight Classification: para- Dichlorobenzene Hazard Categories Under Criteria of SARA Title 111 (40 CFR Part 370): Immediate, Delayed, Fire DOT Label(s): Keep away from food. Marine polutant (overwater shipments) Reportable Quantity (RQ) Under US EPA Para Dichlorobenzene 100 lbs. (45.4 kg) CERCLA Regulations Section 313 Toxic Chemical(s): This product contains the following substances(s) which is defined as toxic chemicals under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:	DOT Proper Shipping Name: p Dishlambana	
6.1/UN1592/III (overwater shipments) US. Surface Freight Classification: para- Dichlorobenzene (Dichlorobenzene 100 lbs. (45.4 kg) CERCLA Regulations Hazard Categories Under Criteria of SARA Title 111 (40 CFR Part 370): Immediate, Delayed, Fire Section 313 Toxic Chemical(s): This product contains the following substances(s) which is defined as toxic chemicals under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:	DOT Proper Shipping Name: p-Dichlorobenzene	
US. Surface Freight Classification: para- Dichlorobenzene Hazard Categories Under Criteria of SARA Title 111 (40 CFR Part 370): Immediate, Delayed, Fire Reportable Quantity (RQ) Under US EPA Para Dichlorobenzene 100 lbs. (45.4 kg) CERCLA Regulations Section 313 Toxic Chemical(s): This product contains the following substances(s) which is defined as toxic chemicals under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:	6.1/UN1592/III	DOT Label(s): Keep away from food. Marine polutant (overwater shipments)
Title 111 (40 CFR Part 370): Immediate, Delayed, Fire following substances(s) which is defined as toxic chemicals under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:	Dichlorobenzene	Reportable Quantity (RQ) Under US EPA Para Dichlorobenzene 100 lbs. (45.4 kg) CERCLA Regulations
L p-Dichlorobenzene	Title 111 (40 CFR Part 370): Immediate,	Section 313 Toxic Chemical(s): This product contains the following substances(s) which is defined as toxic chemicals under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and

TSCA Inventory: 1,4-dichlorobenzene (para-Dichlorobenzene) appears on the inventory of Chemical Substances published by the US Environmental Protection Agency (EPA) under authority of the Toxic Substances Control Act (TSCA).

Hazardous Chemical(s) under OSHA Hazard Communication Standards: This product is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910:1200).

SECTION 9 - ENVIRONMENTAL EFFECTS

Environmental Toxicity Information: Oral LD50 Bobwhite quail: 1,608 mg/kg, Slightly Toxic 48-hr EC50 Daphnia magna: 7.4 mg/l, Moderately Toxic 96-hr LC50 Fathead minnow: 4.2-30 mg/l, Moderately Toxic 96-hr LC50 Grass shrimp: 60 mg/l, Slightly Toxic

Fathead minnow eggs were exposed to PDCB at concentration of 1, 0.57, 1.0, 2.0, 4.1 and 8.7 mg/1. Fry did not survive the 32-day exposure at 2.0 mg/1 and higher. Survival and weight of the fry was reduced at 1.0 mg/1.

PDCB was evaluated in a 24-hour semi-continuous activated sludge (SCAS) test and in the Thompson Duthle-Sturn biodegradability assay. Primary degradation was greater than 95% in the SCAS test. Theoretical CO2 evolution was approximately 58% using the Thompson-Duthle-Sturm method. PDCB was intermediate to readily biodegrable in both assays.

SECTION 10 - HEALTH EFFECTS SUMMARY

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of paradichlorobenzene and development of Precautionary Statements and Occupational Control Procedures recommended in this document.

A - EFFECTS OF EXPOSURE

Inhalation and skin contact are expected to be the primary routes of occupational exposure to paradichlorobenzene (PDCB). Eye contact with PDCB has been reported to produce pain in the eyes, but has not been reported to cause serious injury to the eyes. This material produces a burning sensation when held in contact with skin, though injury to the skin is minimal. Minor eye and nasal irritation have been reported with exposure to PDCB in air at concentrations as low as 50 ppm. Exposure to PDCB above recommended airborne exposure limits may result in headache, swelling around the eyes, inflammation of the mucous membranes of the nose, loss of appetite, nausea and vomiting. Though composition data was limited, several reports in the literature indicate jaundice and liver toxicity as a result of overexposure. Toxicity studies indicate high doses of PDCB produce liver and kidney injury in laboratory animals.

B - TOXICOLOGICAL DATA

Data from laboratory studies and from the scientific literature on PDCB are summarized hereby: Single exposure (acute) studies indicate:

Oral-Slightly Toxic; Rat LD50 3,826 mg/kg) Category III Dermal-Practically Nontoxic; (Rabbit L50 >5,010 mg/kg) Category IV Vapor Inhalation-Practically Nontoxic; (Rat 4-hr LC50> 6.0 mg/l) Eye Irritation-Sever irritation, clearing in 13 days; (Rabbit) Category 1 Skin Irritation-Slightly irritating; (Rabbit, 4-hr exposure 2,9/8.0) Category III

Repeated inhalation studies (up to 14 weeks) with PDCS, conducted in rats, rabbits, guinea pigs and dogs, have resulted in liver, kidney and lung damage, reversible eye changes (rabbits only), reduced body weights and number of white blood cells, clinical signs and animal deaths at high exposure levels, while no effects were reported in monkeys. No adverse effects were observed in rats following repeated skin exposure (3 weeks) to PDCS. In repeat oral dosing studies (4 to 31 weeks), rodents given PDCB exhibited changes in body weight, some organ weights and clinical parameters, porphyria and kidney damage (male rats only) with liver toxicity. Changes in bone marrow, spleen, thymus, and nasal turbinates were also observed in rats at dosages which produced some deaths.

No teratogenic efects were reported in the offspring of rats administered PDCB. Exposure of pregnant rats and rabbits to PDCB in inhalation produced no increase in treatment-related birth defects. No effects were seen on the ability of male or female rats to reproduce when exposed to PDCB in inhalation for 2 successive generations; kidney toxicity (male rat only) and liver toxicity with reductions in body weight and pup survival during days 0-4 of nursing were observed.

PDCB has generally produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells. A positive response was reported in one assay using animals and mixed responses were reported in another assay using animal cells. PDCB has been shown to bind to nucleic acids in mouse organs, but not to bind nucleic acids in rat organs and to increase cell replication in male rat kidneys.